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(12) **United States Patent**
Lagares Corominas

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(54) **BRINE FILTERING DEVICE, APPLIED TO A MEAT PRODUCT INJECTION MACHINE**

33/11 (2013.01); *B01D 33/41* (2013.01); *B01D 33/466* (2013.01); *A23V 2002/00* (2013.01); *B01D 33/74* (2013.01)

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(58) **Field of Classification Search**

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None

See application file for complete search history.

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(56)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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Related U.S. Application Data

(63) Continuation-in-part of application No. 13/284,397, filed on Oct. 28, 2011, now abandoned, which is a (Continued)

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(30) **Foreign Application Priority Data**

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(57)

ABSTRACT

The brine filtering device includes a pre-filtering unit having first and second pre-filtration drums arranged to rotate coaxially about a horizontal axis and a safety filtering unit having a safety filter sleeve submerged in a tank and connected to an outlet. The first and second pre-filtration drums have their lower regions submerged in brine contained in a tub. An inlet hopper receives brine to be filtered and forces it into the first pre-filtration drum through an upper region of its filtering wall. Brine exits a lower region of the first pre-filtration drum and is collected in the tub. Brine enters into the second pre-filtration drum through a lower region of its filtering wall. Brine is poured into tank through an open side wall of the second pre-filtration drum.

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(52) **U.S. Cl.**

CPC *B01D 33/42* (2013.01); *A23L 13/72* (2016.08); *B01D 33/073* (2013.01); *B01D*

19 Claims, 8 Drawing Sheets

